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Version 2, June 1991

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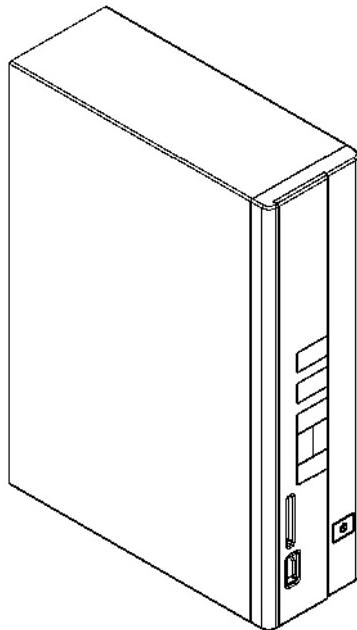
**LC-POWER.COM**

# **Network HDD Recorder and Media Manager**

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**User's Manual**

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## Certification

### FCC Verification Notice (USA only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

#### Class A



This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

### CE Declaration of Conformity (EUROPE only)



This product has been tested in accordance to, and complies with the European Low Voltage Directive (73/23/EEC) and European EMC Directive (89/336/EEC).

The product has been marked with the CE Mark to illustrate its compliance.

## **Safety Information**

Do not disassemble the recorder except as instructed during optional HDD (Hard Disk Drive) installation. Disassembly may cause malfunction or fire or invalidate the warranty.

Keep magnetic materials such as speakers and batteries away from the recorder to avoid accidental HDD data corruption.

Do not expose the recorder to abnormal environmental conditions like smoke or dust, water, humidity or oils.

Ensure that a free airflow is maintained around the recorder.

Use only the supplied power adapter and cable.

Do not drop or apply pressure to the recorder to avoid damage to the HDD.

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## Getting started

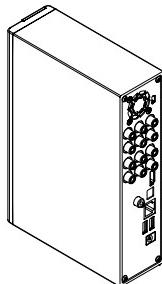
### Network HDD Recorder introduction

The Network HDD Recorder is designed for a simple, trouble-free installation combining a feature rich media management package with versatile recording capabilities. The compact design and connection flexibility make it ideal for home or office use, supporting wired and WiFi connectivity for simple, secure access to your media content.

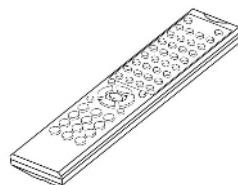
### What's in the box

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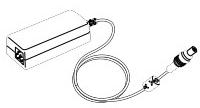
Unpack the Network HDD Recorder package and ensure the following items are included.



Network HDD Recorder unit



Remote control (batteries not included)



DC adapter



Power cable



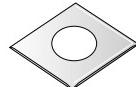
RCA cable



Component cable



User manual



Software CD



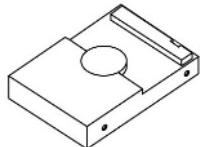
Stand

If any item is missing or damaged, please contact your dealer.

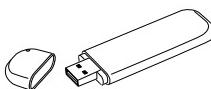
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## Optional items

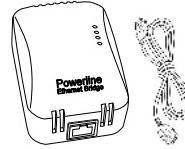
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**3.5" Hard Disk Drive**



**WiFi Dongle**



**PowerLine Ethernet bridge**

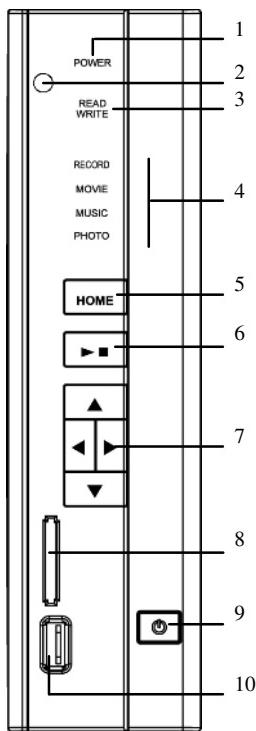


For more information see [Installing the optional hard disk drive](#) on page 12 and [Wireless LAN Setup](#) on page 47.

## Network HDD Recorder Tour

### Front View

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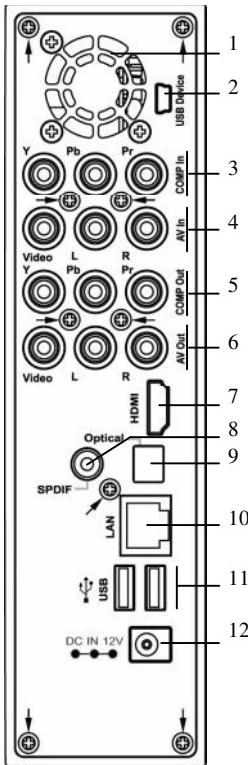


No.	Item	Description
1.	Power LED (green/orange)	Shows power status and errors (see below for more details)
2.	IR receiver	Receives remote control IR signal
3.	Read/Write LED	Lights during HDD read/write
4.	Play mode LEDs	Displays the current play mode
5.	Home	Go to the main OSD menu
6.	Play/Stop	Play/Stop the current media
7.	Direction buttons	Navigate through OSD menus
8.	SD/MMC/MS card slot	Insert SD/MMC/MS memory cards
9.	Power button	Press to power on or off
10.	USB port	Insert USB devices such as the optional WiFi Dongle

### Power LED Behavior

LED state	System condition
Solid green	Power on and operation normal
Solid orange	Standby
Alternating: Green (0.5 secs) Orange (1.5 secs)	System starting up – approximately 7 seconds OR System shutting down – 10 to 13 seconds
	 Start up and shutdown times depend on HDD size
Alternating: Green (0.5 secs) Orange (0.5 secs)	System error, for example overheating or fan failure

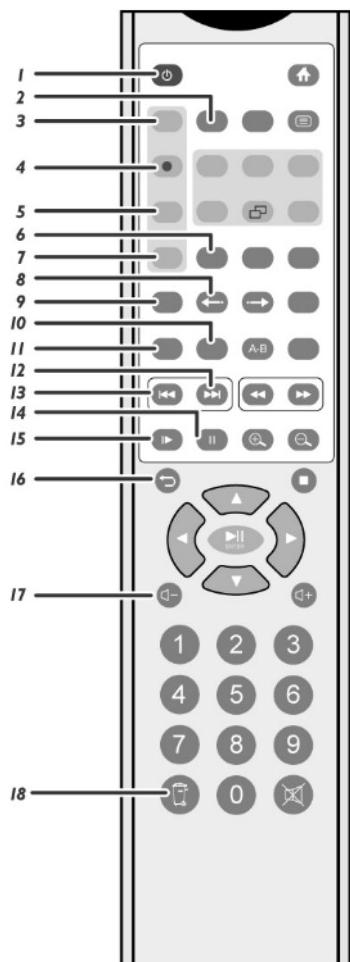
### Rear View

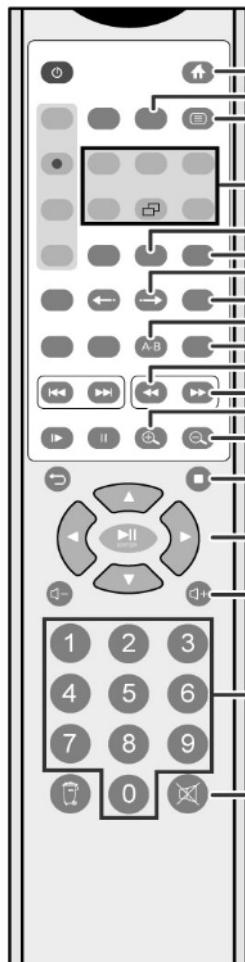


No.	Item	Description
1.	Cooling fan	Regulates HDD temperature
2.	Mini USB port	Connect to PC USB port
3.	Component In	Connect Component input devices
4.	AV In jacks	Connect AV input devices
5.	Component Out	Connect Component output devices
6.	AV Out jacks	Connect AV output devices
7.	HDMI Out port	Connect HDMI devices
8.	SPDIF jack	Connect SPDIF devices
9.	Optical port	Connect optical devices
10.	LAN port	Connect RJ-45 Ethernet cable to LAN
11.	USB host ports	Connect USB devices
12.	DC power jack	Connect DC power adapter

## Remote control

No.	Item	Description
1.	Power	Power on/off the recorder
2.	TV System	Cycle through NTSC Interlace, NTSC Progressive, PAL Interlaced and PAL Progressive output
3.	Video In	Display input source
4.	Record	Begin/resume recording
5.	Time-Shift	Pauses live TV and begins recording for later viewing
6.	USB	Access USB content
7.	Schedule-Rec	Display and edit the recording schedule
8.	INS_Replay	Rewind the current media 10 seconds and replay
9.	Select	Highlight media in media lists for copying, deleting and renaming
10.	Repeat	Repeat the previous track
11.	Search	Search current playback by title, chapter or time
12.	NEXT	Skip to the next track of the DVD or HDD title
13.	PREV	Return to the previous track of the DVD or HDD title
14.	Pause/Step	Pause current playback. Press to advance frame-by-frame.
15.	Slow	Engage slow motion playback. Press Play to return to normal speed.
16.	Return	Go back one menu level.
17.	VOL-	Decrease the playback volume.
18.	Delete	Delete the selected media from the media lists.





No.	Item	Description
1.	Home	Display the main menu
2.	Source	Cycle through input sources (see note below)
3.	Display	Displays media information during playback and recording
4.	Menu hotkeys	Quick access to the media menu
5.	HDD	Access HDD content
6.	Network	Access network content
7.	CM skip	Forward the current media for 30 seconds
8.	Audio	Select an audio track from DVD or HDD files
9.	AB_ Repeat	Repeat a specific part of a movie continuously
10.	Subtitle	Activate subtitles of a DVD title (if available)
11.	FRWD	Fast rewind the current playback. Press repeatedly to increase speed.
12.	FFWD	Fast-forward the current playback. Press repeatedly to increase speed.
13.	Zoom_in	Zoom in on the currently displayed image.
14.	Zoom_out	Zoom out from the currently displayed image.
15.	Stop	Stops the current playback.
16.	Navigate/ Enter	Navigate in menus and select or confirm items.
17.	VOL+	Increase playback volume.
18.	Numeric pad	Numeric pad.
19.	Mute	Toggles mute on/off.

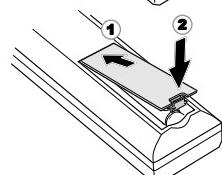
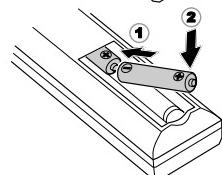
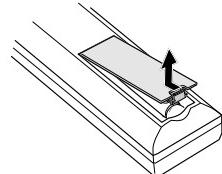


Press “Source” repeatedly to cycle through 480p, 576p, 720p 50Hz, 720p 60 Hz, 1080i 50Hz and 1080i 60 Hz input.

### Installing the remote batteries

The remote control unit does not contain batteries when shipped. To insert the batteries, perform the following steps:

1. Remove the battery compartment cover by pushing the locking catch and lifting the cover in the direction of the arrow.
2. Insert the batteries taking note of the polarity (+/-) as shown.
3. Replace the cover and click the locking catch into its place as shown.



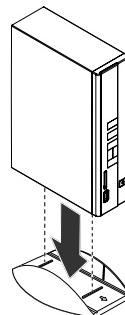
### Attaching the stand

The Network HDD Recorder is supplied with an upright stand attachment providing additional stability. To install the stand, perform the following steps:

1. Place the stand on a dust-free, level surface.
2. Insert the recorder into the stand as shown.



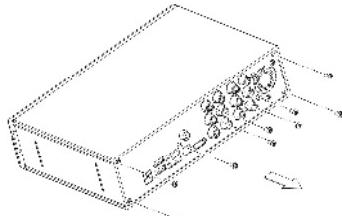
The indicator arrow points toward the front of the recorder.



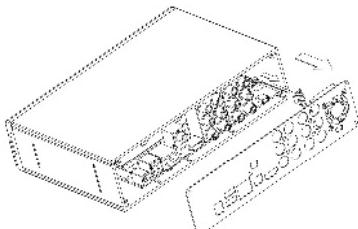
## Installing the optional hard disk drive

The recorder does not include an HDD as standard. To install the optional 3.5" SATA HDD, perform the following steps:

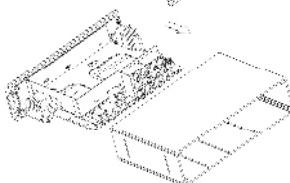
1. Remove the nine (9) screws from the rear of the recorder as shown.



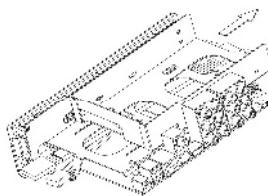
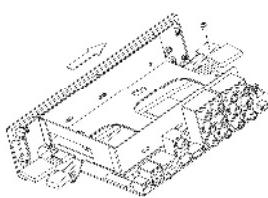
2. Carefully remove the back panel and disconnect the fan cable as shown.



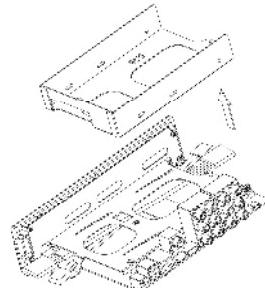
3. Slide the casing off as shown.



4. Remove the securing screw from the HDD tray and slide the tray in the direction shown.



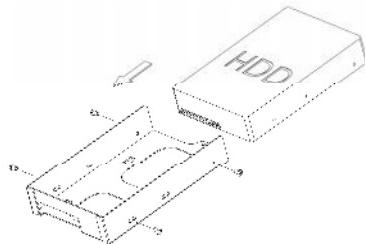
- 
5. Lift the HDD tray off as shown.



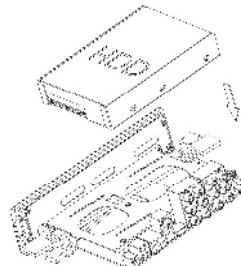
6. Insert the HDD into the HDD tray and secure the four (4) screws to hold the HDD in its place.



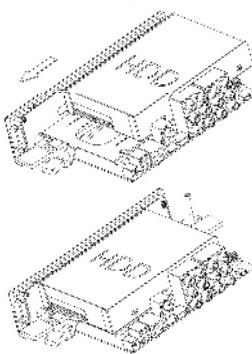
Ensure that the HDD is inserted the correct way (up, label is visible).



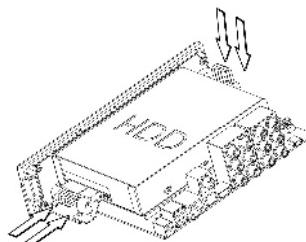
7. Place the HDD tray back onto its place as shown.



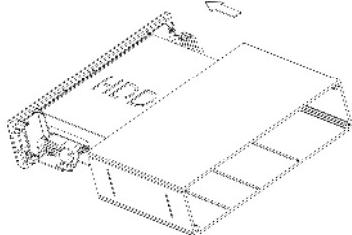
8. Slide back the HDD tray as shown and replace the securing screw.



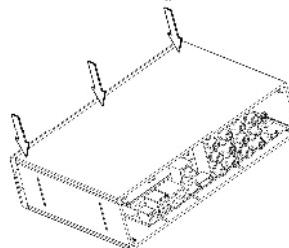
9. Connect the two (2) HDD cables to the HDD and to the board as shown.



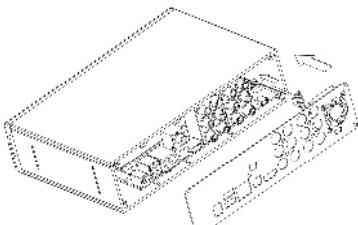
10. Slide the casing back onto its place as shown.



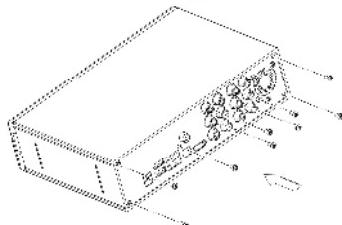
You may need to apply pressure to the front panel as shown when locating the casing.



11. Reconnect the fan cable and replace the back panel.



12. Replace the nine (9) securing screws into the rear of the recorder.



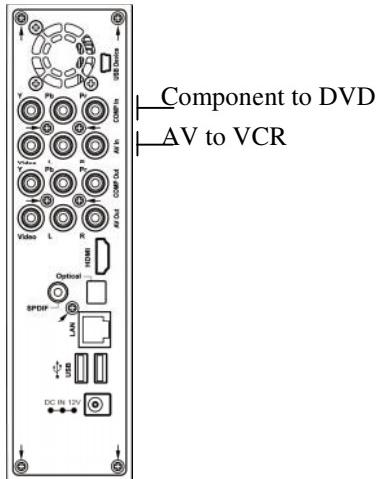
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## Making connections

Your Network HDD Recorder has a full set of Input and Output ports for maximum connection versatility.

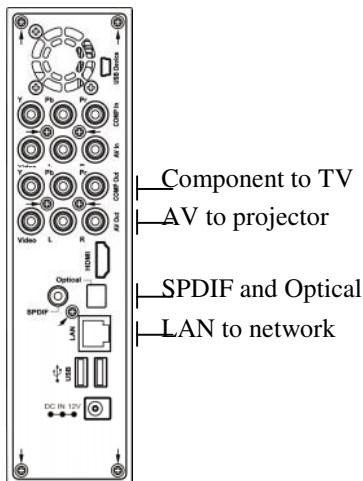
### Input connection

The following diagram demonstrates the ports used for input connections. Input devices include DVD players, TV Box/Set-Top-Box and VHS recorders (SDTV only).



### Output connection

The following diagram demonstrates the ports used for output connections. Output devices include displays, projectors and stereos.

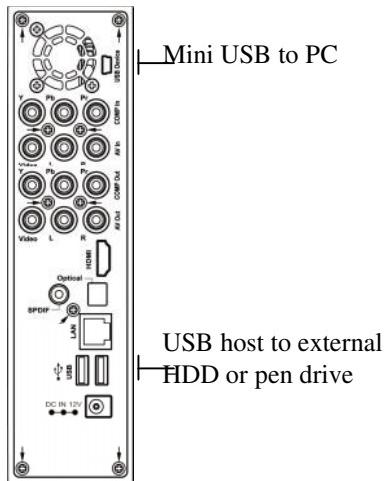


The SPDIF jack and optical port can be used to support high quality digital sound output. Sophisticated audio equipment may only require a connection through the optical port. Please refer to your audio devices' user manual for more details.

## **Peripheral Connection**

---

The following diagram demonstrates the ports used for connecting peripheral devices. Peripherals include external HDDs and USB devices such as the optional WiFi Dongle.

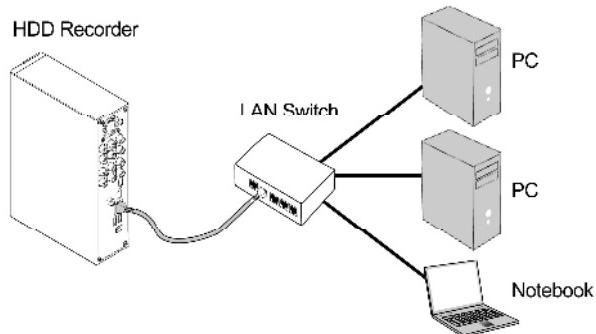


## **Connecting to a Network**

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Your Network HDD Recorder supports the connection to an existing Local Area Network (LAN) with or without Dynamic Host Configuration Protocol (DHCP).

1. Connect a standard RJ-45 Ethernet cable to the LAN port.
2. Connect the other end to a switch, hub, or router.



See [Wired LAN Setup](#) on page 46 for more details.

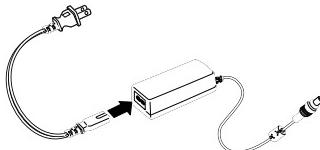
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## Powering on the recorder

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After creating the desired connections, perform the following steps to power on the recorder:

1. Connect the power cable and DC power adapter.



2. Plug the power cable into a power outlet.
3. Plug the DC adapter into the power jack on the rear panel of the recorder.

The **Power LED** lights green and the startup splash screen displays.



- The startup splash screen may differ from the example above.
- Depending on the connection method selected, you may need to manually select your TV's display mode to view the picture.

In the course of normal operation, the first On-Screen Display (OSD) screen displayed is the **Main menu**.

The first time you power on the recorder (or after resetting to factory defaults) the **Setup (First Time)** screen displays.



4. Using the remote control or navigation buttons on the front panel of the recorder, select the desired **Menu Language** from the submenu and press 
5. The **Time** menu is highlighted. Select **Manual** from the submenu. Enter the date and time as directed then press  to confirm.
6. The **Network** menu is highlighted. Select **DHCP IP** or **FIX IP** from the submenu to configure network settings. See **Wired LAN Setup** on page 46 for more details.

 If you do not want to configure network settings now, select **Cancel** from the submenu to continue.
7. Press  to confirm network settings. The **Main** menu displays.



## Using the standby mode

The recorder provides **Standby** mode to temporarily power down the unit.



During extended periods of inactivity, the recorder should be unplugged from the power outlet.

To enter the **Standby** mode, perform the following steps:

1. Press the  button on the remote control or front panel of the recorder.
2. The **Power LED** lights orange and the recorder enters the **Standby** mode.



The HDD fan continues to run for a few seconds in **Standby** mode.

To exit the **Standby** mode, perform the following steps:

1. Press the  button on the remote control or front panel of the recorder.
2. The **Power LED** lights green and the startup splash screen displays.
3. The **Main** OSD menu displays after a few seconds.

## Formatting the Hard Disk Disk

The optional 3.5" Hard Disk Drive (HDD) must be formatted before use. To format your HDD, perform the following steps:

1. Using the remote control or navigation buttons on the front panel of the recorder, select **Setup** from the **Main** menu and press .

The **Setup** menu displays.



2. Select **System Options** and press .

The **System Options** screen displays.



3. Select **HDD Format** and press .
4. In the submenu, select **HDD Format** and press .

A warning message displays.



5. Select **OK** to continue. The **Partitioning** screen displays.
6. Using the and navigation buttons, select the partitioning ratio. Changes made are shown on the screen.

The FAT32 partition is named HDD1 and the NTFS partition is named HDD2 on the media screens. See Using the Network HDD Recorder on page 28 for more information.

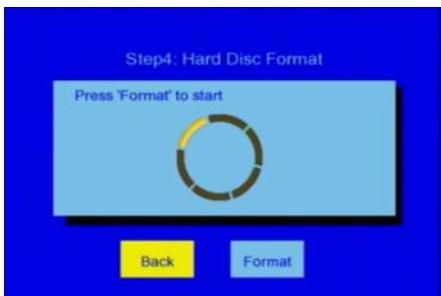
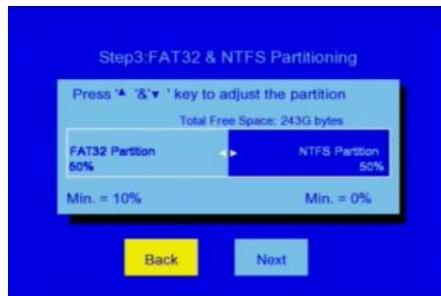


NTFS HDDs are read-only; you cannot save, delete or rename content on the NTFS partition through the recorder.



At least 10% of the HDD **MUST** be reserved for the FAT32 format.

7. Select **Next** to continue.
- The **Hard Disk Format** screen displays.



8. Select **Format** to begin formatting the HDD.



The formatting time varies depending on the HDD capacity.

---

The **Congratulations** screen displays once the formatting process has been completed.

9. Select **OK** to complete the process.



## Installing the Transcode Server

The Network HDD Recorder requires the Transcode Server software to run **.rm**, **.rmvb**, **H.264**, and **.mkv** format files.



You must install the Transcode Server on all computers that are included in the file share scheme.

To install the Transcode Server, perform the following steps:

1. Insert the supplied software CD into your computer. The welcome screen displays.



If the welcome screen does not display, browse the CD contents using the Windows or Internet Explorer.

Select the required language from the list.



2. The Options screen displays.

Click **Transfer Code** to begin the installation.



The **Transcode Setup Wizard** screen displays.

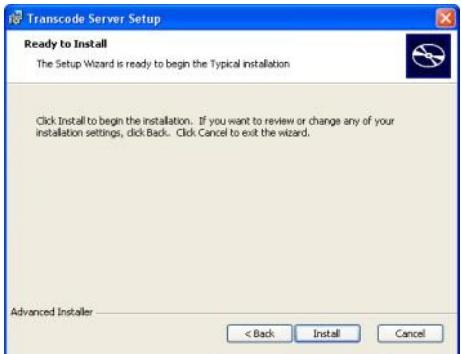


3. Click **Next**.

The **Select Installation Folder** screen displays.



4. Click **Next** to use the default installation folder or **Browse** to a specific location.
5. The **Ready to Install** screen displays.



6. Click **Install** to begin the installation.

A successful installation will be displayed by the **Completion** screen.

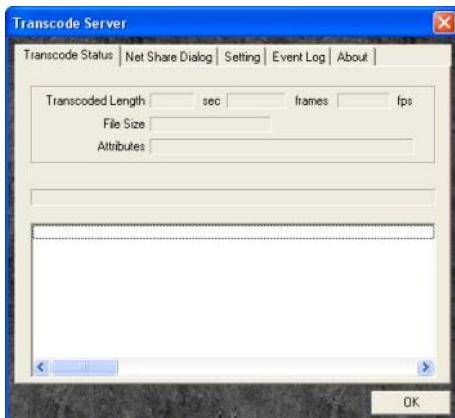


7. Click **Finish** and reboot your computer to complete the installation.

After rebooting, the Transcode Server program starts automatically and the main menu displays.



Depending on the Firewall software installed on your computer, you may need to unblock Transcode Server in the exceptions List. See your Firewall user manual for more information.



An icon is installed in your taskbar, indicating that Transcode Server is currently running.



After installing Transcode Server, if the globe icon does not display in the taskbar, click the **Start** button on the desktop and go to **All Programs → Transcode Server → Transcode Server** to launch the program manually.



---

## Adding Content to Transcode Server

---

After installing Transcode Server on all network computers, you must add the folders containing the **.rm**, **.rmvb**, **H.264**, and **.mkv** format files. Adding the folders to Transcode Server allows the recorder to read the specialized format files.

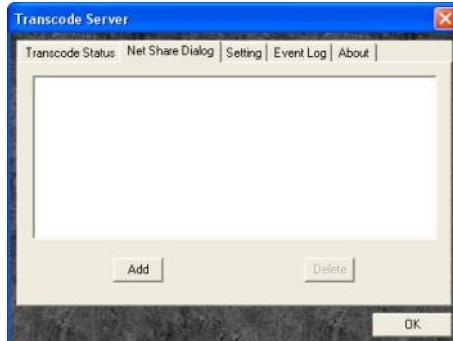


Transcode Server is not required to access standard formats. See Supported file formats on page 29.

To add folders to Transcode Server, perform the following steps:

1. Double-click the Transcode Server icon in the task bar to open Transcode Server.
2. Select the **Net Share Dialog** tab. The Net Share Dialog screen displays all shared folders on the source computer.
3. Click **Add** to include content in the Net Share Dialog screen.

The first time you add content to Transcode, a warning message displays.

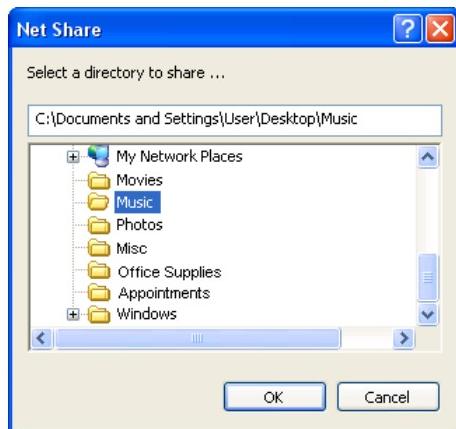
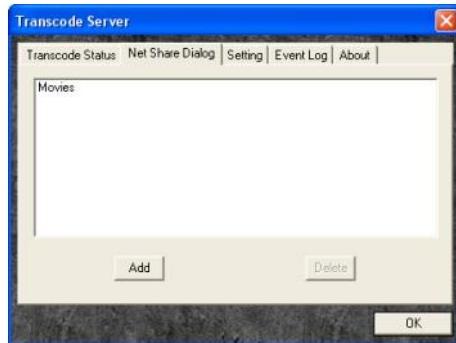


4. Click **OK** and follow the instructions to share a folder manually using Windows.

Refer to *Windows Help* in **Start→Help and Support** for more information on sharing folders.

Net Share Dialog displays the manually shared folder.

5. Click **Add** to display the browser screen.

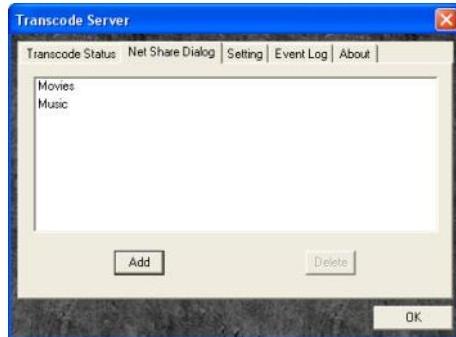


- 
6. Browse to the location of the content folder and click **OK**.



You must add each folder individually.

The new folder is added to the Net Share Dialog box.



## Using the Network HDD Recorder

### The main menu

The **Main** menu is the default display after the initial setup is complete. Use the seven icons displayed to access all the features of the recorder.



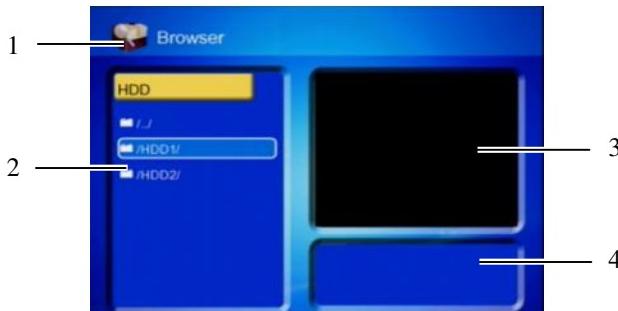
Icon	Menu	Description
	Video In	Watch or record video or TV input
	Movie and Video	Manage movie and video clips
	Music	Manage your music files
	Photo and Slideshow	Manage your photos and create slideshows
	Copy Files	Copy media from one location to another, for example USB to HDD
	Setup	Manage the general settings of the recorder and output display
	Browse All Files	Quickly search through your entire library

---

## Menu elements

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The media menus consist of four panels displaying information about the currently selected media type and location. See the following example screen.



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No.	Item	Description
1	Menu name	Displays the current menu name.
2	Navigation panel	Displays the media file location, name and file type.
3	Detail panel	Displays the selected media information. Photos and videos display a preview in this panel.
4	File panel	Displays file name and size information.

---

## Supported file formats

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Media type	Supported file formats
Video	.avi, .mpg, .vob, .ASF, .ifo, .dat, .mp4, .ts, .DivX HD, .Xivd
Audio	.mp3, .wma, .pcm, .wav
Image	.jpg, .bmp

---



If Transcode Server is installed on the source computer, **.rm**, **.rmvb**, **.wmv**, **H.264**, and **.mkv** video formats are also supported.

Transcode Server does not support playback for these formats from the internal HDD. You must play them from their original network location.



## The Video In Menu

Press the **Video In** button on the remote control or select **Enter** **Video Bypass and Record Mode** from the **Main** menu to view and record the video or TV signal. See Input connection on page 15 for connection information.

## Viewing Video

---

To view video from an input source, perform the following steps:

1. Ensure that the input source is connected correctly and that the signal is good. See Making connections on page 15.
2. Press **Video In** on the remote control to view the content currently playing on the input source.



When using the Component cable from the input source, press the **Source** button on the remote control to display the signal.

## Recording Video

---

To record video from an input source, perform the following steps:

1. Ensure that the input source is connected correctly and that the signal is good. See Making connections on page 15.
2. Press on the remote control to begin recording.



Video is recorded to an automatically created folder called **My Recordings** on the device specified in Recording Options on page 45.

3. Recording continues until you press on the remote or until there is no free space left on the internal HDD.

---

## Recording using Time-Shift

---

The **Time-Shift** feature allows you to pause live TV feed for viewing at a later date. To start **Time-Shift** recording, perform the following steps:

1. Press **Video In** on the remote control to view the TV feed you intend to record.
2. Press **Time-Shift** on the remote control.
3. The live program is paused on-screen and recording begins.
4. Press  to play the recorded content.



Recording continues until you press  on the remote control or the 30 minutes Time-Shift recording buffer is used up.

---

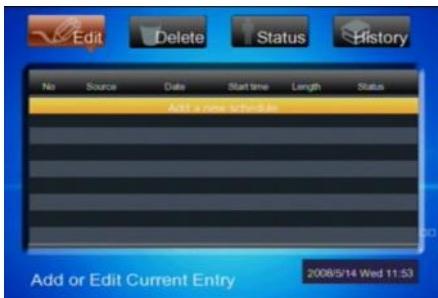
## Using Scheduled Recording

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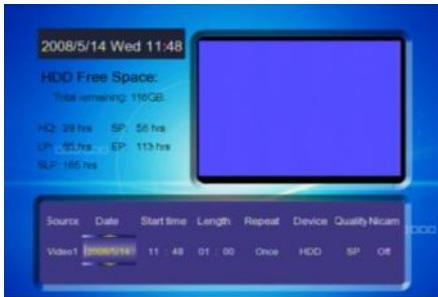
**Scheduled Recording** allows you to set dates and times when the recorder automatically records live TV feeds. To program Schedules, perform the following steps:

1. Press **Schedule-REC** on the remote control.

The **Schedule** screen displays the current schedules.



2. Using the remote control or navigation buttons on the front panel of the recorder, select **Edit** from the **Schedule** menu and press .
3. The **Schedule Editor** screen displays.



4. Enter the desired schedule information and press .

5. Select **Confirm** to edit the schedule.

The new entry is added to the **Schedule** screen.



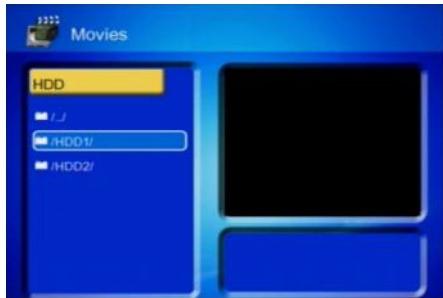


## Managing Movies and Video

Press the **Movie** button on the remote control or select **Play Movies and Video Clips** from the **Main** menu to access the **Movies** menu.



The **Movie** menu only displays video content (**.avi**, **.mpg**, **.vob**, **.asf**, **.ifo**, **.dat**, **.mp4**, **.ts**, **.DivX HD** and **.Xivd**). Other types of media are hidden.



## Playing Movies and Video

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press . The selected content begins to playback.
2. Press **Pause/Step** to pause playback, press to resume or press to return to the **Movies** menu.
3. During playback, press **Search** on the remote control to use the Search feature.  
The **Playback Search** screen displays.
4. You can search the current movie or video for a specific **Title**, **Chapter** or elapsed **Time**.

## Using AB\_Repeat

AB\_Repeat allows you to watch your favorite part of a movie on a continuous loop. To use AB\_Repeat, perform the following steps:



**AB\_Repeat** is only available for **DivX**, **Xvid** (avi), **VOB** and **TS** file formats.

1. Locate the starting point of the loop during playback and press **AB\_Repeat** to mark the start of the loop.

Continue playback until the end of the desired loop is reached.

2. Press **AB\_Repeat** once more to mark the end of the loop.

The repeat loop begins where you first pressed **AB\_Repeat** and continues to where you pressed **AB\_Repeat** for the second time.

3. Press **AB\_Repeat** for a third time to return to the standard movie playback mode.

## Renaming Movie and Video files

---



You can only rename content from a FAT32 partition. NTFS content is read-only.

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press  on the remote.

2. Select **Rename** from the submenu and press .

The virtual keyboard displays.

3. Enter the new name using the **Navigation** panel and select **OK**.

The media is renamed and the **Movie** menu displays.

---

## Deleting Movies and Video files

---



You can only delete content from a FA T32 partition. NTFS content is read-only.

 Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press  on the remote.

 Select **Delete** from the submenu and press .

**Confirm to delete** displays.

 Select **OK** to delete the selected file(s).

The media is deleted and the **Movie** menu displays.



If you want to delete multiple files from a specific location, use the **Recycle** feature in the **Copy Files** menu. See Deleting multiple files on page 43.



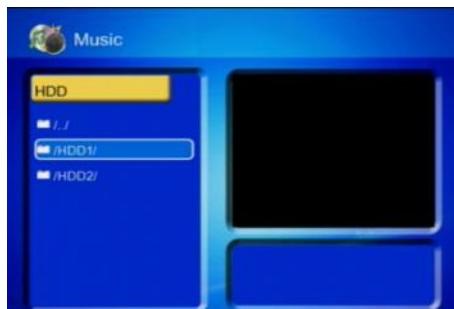


## Managing Music

Press the **Music** button on the remote control or select **Play Music** from the **Main** menu to access the **Music** menu.



The **Music** menu only displays audio content (**.mp3**, **.wma**, **.wmv**, **.pcm** and **.wav**). Other types of media are hidden.



## Playing Music

---

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press . The selected content begins to playback.
2. Press **Pause/Step** to pause playback, press to resume or press to return to the **Music** menu.
3. During playback, press **Repeat** on the remote control to cycle through the **Repeat** features:
  - Press **once** to repeat the last audio file.
  - Press **twice** to repeat all audio files in the current folder.
  - Press **three times** to turn off the repeat mode.

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## Creating a Playlist

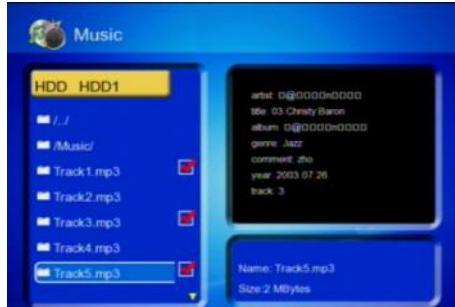
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The Playlist is used to store your favorite music media in a single, easy to access list. You can add music to the Playlist from HDD and USB without moving the content from the original location.

To create a Playlist, perform the following steps:

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press **Select**.

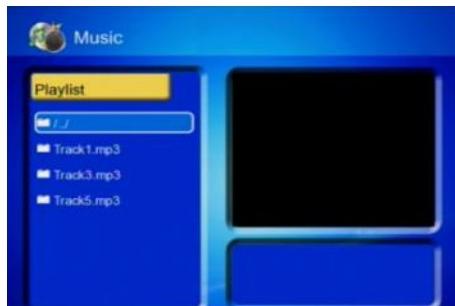
Repeat for all media that you want to include in the playlist.



2. Press **Search** on the remote control. **Add Selects to List** displays and the selected content is added to the Playlist.
3. Press **◀** on the remote control until **My Media Center** displays.
4. Select **Playlist** to view the current Playlist.



To remove content from the Playlist, press **Select** on each file then press **Search** to remove the content.



Press **Play** to begin playback or use the Playlist as background music for a slideshow. See Preparing Slideshows on page 39.

## **Renaming Music files**

---



You can only rename content from a FAT32 partition. NTFS content is read-only.

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press  on the remote.
2. Select **Rename** from the submenu and press . The virtual keyboard displays.
3. Enter the new name using the **Navigation** panel and select **OK**. The media is renamed and the **Music** menu displays.

## **Deleting Music files**

---



You can only delete content from a FAT32 partition. NTFS content is read-only.

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press  on the remote.
2. Select **Delete** from the submenu and press . **Confirm to delete** displays.
3. Select **OK** to delete the selected file(s).

The media is deleted and the **Music** menu displays.



If you want to delete multiple files from a specific location, use the **Recycle** feature in the **Copy Files** menu. See Deleting multiple files on page 43.



## Managing Photos

Press the **Photo** button on the remote control or select **Display Photo and Slideshow** from the **Main** menu to access the **Photo** menu.



The **Photo** menu only displays image content (.jpg and .bmp). Other types of media are hidden.



## Viewing Photos



Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press .

The selected content displays.



Press  to return to the **Photo** menu.



While browsing photos, you can rotate the current photo clockwise or counter-clockwise to have a view rotated 90 degrees by pressing the  or  navigation buttons.



The  and  buttons cycle through the five zoom options: Fit (to screen), 2X, 4X, 8X and 16X magnification.

## Preparing Slideshows

Your Network HDD Recorder enables you to create slideshows, with or without musical background.

To create your own slideshows, perform the following steps:

1. Collect all photo files to appear in the slideshow and save them in the same directory.



NOTE

You can save slideshow content in your HDD, USB or network folders as long as all the desired photos are located in the same folder.

2. Press the **Setup** button on the remote control or select **Enter Setup Menu** from the **Main** menu.
3. Select **Change Photo Options** → **Slide Show Timing** and press .
4. Select the interval between slides from 2 seconds to 5 minutes and press .



NOTE

The default interval, **Off**, disables the slideshow feature.

5. Select a **Transition Effect** to customize the transition between slides. For example, selecting **Left to Right** replaces the next image over the current image by sliding from the left side of the screen to the right.
6. Select **Background Music** to add a musical background to the slide show:
  - Off - no musical background
  - Folder - the background files MUST be located in the same folder as the photo content
  - Playlist - the background files are played from a **Playlist**. See Creating a Playlist on page 37.
7. Navigate to the desired photo directory and press  to start the slideshow.

## Renaming Photo files

---



NOTE

You can only rename content from a FAT32 partition. NTFS content is read-only.

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press .
  2. Select **Rename** from the submenu and press .
- The virtual keyboard displays.
3. Enter the new name using the **Navigation** panel and select **OK**.
- The media is renamed and the **Photo** menu displays.

---

## Deleting Photos files

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You can only delete content from a FAT32 partition. NTFS content is read-only.

1. Using the remote control or navigation buttons on the front panel of the recorder, select the desired media in the **Navigation** panel and press  on the remote control.
2. Select **Delete** from the submenu and press . **Confirm to delete** displays.
3. Select **OK** to delete the selected file(s).  
The media is deleted and the **Photo** menu displays.



If you want to delete multiple files from a specific location, use the **Recycle** feature in the **Copy Files** menu. See Deleting multiple files on page 42





## Copying Files

Press the button on the remote control or select **Copy Files Between Storage Media** from the **Main** menu to access the **File Copy** menu.



To copy files from one location to another, perform the following steps:

1. In the **Source** panel, select the device containing the original content and press .
2. In the **Destination** panel, select the device to receive the copied content and press .
3. In the **Source** panel, navigate to the original content and press **Select** to highlight the required file.



You can copy multiple files by navigating to each file in turn and pressing **Select** to highlight them.

4. Press on the remote control or recorder front panel to move to the Destination panel.
5. Select the destination or create a new directory and press on the remote control or recorder front panel. **Proceed to copy selected files** displays.
6. Select **OK** to copy the files to the selected destination.

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## Deleting multiple files

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The Recycle feature allows you to quickly delete multiple files from a specified location without deleting them individually through the media menus.

To recycle files, perform the following steps:

1. In the **Source** panel, select the device containing the desired content and press .
2. In the **Destination** panel, select **Recycle** and press .
3. In the **Source** panel, navigate to the desired content and press **Select** to highlight the required files.



4. Press ► on the remote control or recorder front panel.  
**Proceed to delete selected files** displays.
5. Select **OK** to delete the selected files.



## Managing System Settings

Press the **Setup** button on the remote control or select **Enter Setup Menu** from the **Main** menu to access the **Setup** menu.

### Video and Audio Options

Video and Audio options are used to alter the appearance of the output signal and set the audio output mode.



#### Aspect Ratio

Set the output screen size to suit the display device. Select from **Pan Scan 4:3**, **Letterbox 4:3** or **16:9**.

#### Brightness

Set the output screen brightness to suit the display device (range **0** to **50**).

#### Contrast

Set the output screen contrast to suit the display device (range **0** to **50**).

#### Speaker

Select the number of speaker channels to suit the audio output device. Select from **2 channels** or **5.1 channels** for Dolby Digital surround sound.

#### Night Mode

Night Mode is designed to dampen sound when noise pollution shall be avoided.

- On - loud or persistent sound is dampened automatically
- Comfort - sudden or unexpected sound is dampened automatically



**Night Mode** is only available with sophisticated audio equipment.

#### S/PDIF

Set the S/PDIF mode to suit the audio output device. Select from **RAW**, **LPCM**, **RAW (by HDMI)** or **LPCM (by HDMI)**.

## Recording Options

Recording options set the recording quality and where recorded content is saved.



### Quality

Set the video recording quality. On a sliding scale from high to low quality, select from:

Setting	Quality	Memory Used
High Quality (HQ)	Highest	Most
Short Play (SP)		
Extended Play (EP)		
Long Play (LP)		
Super Long Play (SLP)	Lowest	Least



HQ recordings use the most disk space while SLP mode uses the least.

### REC Device

Set the destination device of recordings made from all sources. Select from **HDD, USB#1, USB#2 or USB#3**.

## Network Options

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Network options define wired (LAN) and wireless (WLAN) connection information.



Wireless connection is only available with having an optional WiFi Dongle accessory installed.



### Wired LAN Setup

Your Network HDD Recorder supports connection to the LAN through DHCP IP or Fixed (Static) IP.

#### Using DHCP IP

To configure a LAN connection using DHCP IP, perform the following steps:

1. Ensure that all cable connections are secure and that the local network is active.
2. Using the remote control or navigation buttons on the front panel of the recorder, select **Wired LAN Setup** and press .
3. Select **DHCP IP (Auto)** and press . **DHCP (AUTO)** displays.
4. Select **OK** and press . **Save Network Setting** displays.
5. Select **OK** and press . A testing screen displays.
6. When the test is complete, the **Network Options** screen displays.

A successful connection is established when **ON** and an IP address display in the submenu.

#### Using Fixed IP

To configure a LAN connection using Fixed IP, perform the following steps:

1. Ensure that all cable connections are secure and that the local network is active.
2. Using the remote control or navigation buttons on the front panel of the recorder, select **Wired LAN Setup** and press .

- 
3. Select **Fixed IP (Manual)** and press .

A submenu displays **IP Address**, **Subnet Mask** and **Default Gateway**.

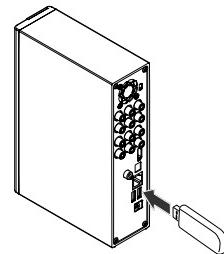
4. Enter a valid IP address from your LAN, typically 192.168.1.*n* (where *n*=1 to 254).
5. The Subnet Mask is entered automatically and should not be changed.
6. Enter a Default Gateway IP address if known, otherwise leave the default.
7. Press . **Save Network Setting** displays.
8. Select **OK** and press . A testing screen displays.
9. When the test is complete, the **Network Options** screen displays.  
A successful connection is established when **ON** and an IP address display in the submenu.
  - If the connection fails, try using another IP address.
  - See your Router User Manual for more information on LAN connection using Fixed or Static IP addresses.



## Wireless LAN Setup

The optional WiFi Dongle provides wireless access to the recorder. Plug the dongle into a USB slot on the recorder as shown.

- Using the remote control or navigation buttons on the front panel of the recorder, select **Setup** from the **Main** menu and press .
1. Select **Network Options** → **Wireless Setup** and press .
  2. The **Connect or Modify** submenu displays.



3. Select **Modify** and press the **►** navigation button. The **Get Connection Mode** screen displays.

4. Select **Infrastructure (AP)** and press the ► navigation button. The **Get SSID Name** screen displays.
5. Select **Auto** to scan for available **Service Set Identifiers** (SSIDs). A list of available SSIDs displays, showing security method and signal strength.
6. Select the desired SSID from the list and press the ► navigation button. The **Confirm SSID Name** screen displays.
7. Press the ► navigation button to confirm the SSID. The **WLAN Security** screen displays. The Network HDD Recorder supports an **Open System** connection (not recommended) and **WEP** and **WPA** secure connections.  
 You must select the security method supported by the target SSID or the connection will fail.
8. Select the **Wireless Security** method used by the target SSID and press the ► navigation button. A confirmation screen displays.
9. Press the ► navigation button to proceed.
10. If your SSID does not use security features, the **Wireless Address Setup** screen displays. Select the connection method and follow the onscreen prompts to test and complete the connection, OR  
If your SSID uses security features, select WEP or WPA and enter the security key specified by the SSID. Select the connection method and follow the onscreen prompts to test and complete the connection.  
A successful connection is established when an IP address is displayed and the signal strength monitor shows a positive signal.



Connection time may vary depending on network traffic and connection speeds.

See your Wireless AP User Manual for more information on Wireless networks.

## Using Ad Hoc (Peer-to-Peer) Mode

The Ad Hoc (or Peer-to-Peer) mode allows the Network HDD Recorder to communicate directly with other wireless devices such as notebooks, without the need to connect to a wireless Access Point.



Before proceeding, ensure that the optional WiFi Dongle is installed in the recorder and the peer wireless device (or notebook) is active.

To enable the Peer-to-Peer mode, perform the following steps:

1. Using the remote control or navigation buttons on the front panel of the recorder, select **Setup** from the **Main** menu and press

2. Select **Network Options** → **Wireless Setup** and press .  
The **Connect or Modify** submenu displays.



3. Select **Modify** and press the navigation button. The **Get Connection Mode** screen displays.
4. Select **Peer to Peer (Ad Hoc)** and press the navigation button. The **Save and Startup** screen displays.
5. Select **Manual** and press the navigation button. The **Ad Hoc Setup** screen displays.
6. Select **Wireless SSID** and press . Enter the SSID of the peer wireless device (or notebook) and select **OK**.



In some cases, the **Wireless SSID** is filled in automatically. Ensure that the SSID displayed corresponds with the intended peer device you want to connect to.

The **Ad Hoc Setup** screen displays.

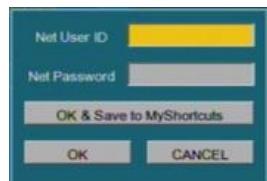


7. Press the ► navigation button to display the **Save and Startup** screen.
8. Select **OK** and press . **Ad Hoc Testing** begins.

When the connection is verified, the **Test OK** screen displays the connection information.



9. Press . The **Network Options** screen displays showing the Ad Hoc IP address.
10. Access the **Browser** and navigate to **Network→Workgroup**. Select the wireless device from the list and press .
11. An authentication screen displays.  
Enter the username and password in the fields provided if the peer notebook requires logon information,  
**OR**  
Select **OK** and press . When **Logon Successful** displays, access shared folders on the peer notebook through the **Browser** in the usual way.



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## System Options

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System Options are used to configure device settings such as the OSD **Menu Language** and **Time** and to perform system maintenance.



### Menu Language

To change the OSD language, perform the following steps:

1. Using the remote control or navigation buttons on the front panel of the recorder, select **Menu Language** and press .
  2. Select the desired language from the submenu and press .
- The selected language change is applied immediately.

### Time

To set the recorder time, perform the following steps:

1. Using the remote control or navigation buttons on the front panel of the recorder, select **Time** and press .
2. Select **Manual** from the submenu and enter the current date and time.
3. Press  to confirm the changes.

### HDD Format

Format the optional HDD before use. See **Formatting the Hard Disk Disk** on page 19 for more details.

### Restore Default

You can restore the recorder factory default settings using this option.

To return the recorder to factory settings, perform the following steps:

1. Using the remote control or navigation buttons on the front panel of the recorder, select **Restore Default** and press .
2. Select **OK** from the submenu and press .
3. All manual settings are returned to default and the **Setup (First Time) screen** displays.

## Photo Options

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Photo options are used to configure photo display settings such as **Slide Show Timing** and **Background Music**.



### Slide Show Timing

Set the interval between slides in a photo slideshow.

### Transition Effect

Set the transition effect between slides in a photo slideshow.

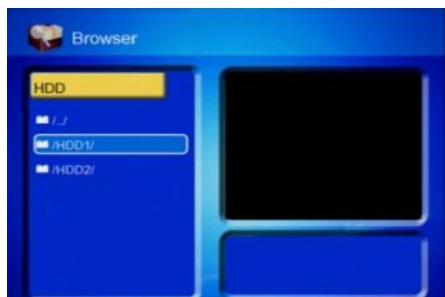
### Background Music

Set the source of musical background for slide shows. See *Preparing Slideshows* on page 39 for more information.



## Browsing All Media

Press the **Browser** button on the remote control or select **Browse All Files** from the **Main** menu to access the **Browser** menu.



Using the remote control or navigation buttons on the front panel of the recorder, you can browse all available content in all locations, regardless of its type.

### Updating Firmware

Firmware describes any type of software that controls the internal workings of a device. Firmware updates are created for a number of reasons, most commonly to correct operational bugs or to introduce enhanced functions.

From time-to-time, new versions of firmware become available and the recorder should be kept up-to-date with the latest firmware version.

To update the recorder firmware, perform the following steps:

1. Power off and unplug the recorder.
2. Create a bootable USB flash drive (or USB key).
3. Save the latest firmware update package to the USB key.



Ensure that you decompress (or extract) the files before you save them to the USB key.

4. Insert the USB key into any USB port on the recorder. See Network HDD Recorder Tour on page 7 for port locations.
5. Hold down the **Play/Stop** button on the front of the recorder and plug in the power cable.

Continue holding the **Play/Stop** button until the output display shows the **Updating Firmware** screen.



Do not turn off power or unplug the recorder during the upgrade process.

6. Follow the on-screen prompts to complete the upgrade.

## Troubleshooting

### Connection Issues

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#### ***No image or a faulty image is displayed on my screen.***

If the display output settings are incorrect, the resulting image may be faulty.

1. Check if all cable connections are secure and correctly assigned.
2. Press **TV System** on the remote to cycle through the settings until a normal screen is displayed. There are six output settings, 480i / 576i / 480P / 576P / 720P / 1080i.



NOTE

Some HDMI displays only support 720P or above.

3. Connections to external HDDs are not saved when the recorder is powered off. You must reconnect to the HDD to continue viewing.

#### ***My recorder cannot access the internal HDD.***

1. Check if all cable connections are secure and correctly assigned.
2. Ensure that the HDD was formatted before use. If it has not been formatted yet, see Formatting the Hard Disk Disk on page 19.

#### ***My recorder cannot access external USB HDDs.***

1. If your computer runs Windows 98SE or Windows ME, you require a specialized USB driver.
2. From the computer desktop, click **Start**→**Control Panel**→**System**→**Hardware**→**Device Manager**→**Disk Drives** and select **Properties** for the USB drive:
  - For Windows 98SE—check **Removal**
  - For Windows ME—check **Moveable**

#### ***External HDD access is slow.***

1. Check if all cable connections are secure and correctly assigned.
2. Check the PC USB driver version. Version 1.1 causes a transmission lag when used with the recorder.
3. Use USB 2.0 to correct the problem.

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### ***I cannot connect to the network.***

1. Check if all cable connections are secure and correctly assigned.
2. Check if the LAN/WLAN settings in the **Setup** menu are matching to the local network. Refer to your router or wireless access point User Manual for more information.
3. If you use a firewall, for example Windows Firewall, ensure that the connection from the recorder to the network is not blocked.

If necessary, you can create firewall exceptions for specific devices. Refer to your firewall User Manual for more information.

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## **Operation Issues**

### ***I cannot copy files to my internal HDD.***

- FAT32 format HDDs cannot write single files larger than 4 GB. Check the size of the file you are copying.
- NTFS format HDDs cannot be written to from the recorder; they are read-only.

### ***I cannot play/display some files.***

Check if the recorder supports the file format. See Supported file formats on page 29.

### ***I cannot record content from CD/DVDs.***

Check if the source CD/DVD has a copy protection. Some original CDs/DVDs have a copy write protection and cannot be copied by any means.

Try copying content from another CD/DVD without copy protection to ensure that the recorder is operating correctly.

### ***I cannot play .wmv format files.***

.wmv files can only be played over a network using the supplied Transcode Server software.

1. Install the Transcode Server software using the supplied CD. See Installing the T on page 22.
2. Add the desired content to **Net Share Dialog** and retry the operation. See Adding Content to T on page 25.

***My AVI caption file doesn't display.***

This can occur when the name of the AVI file you want to play does not correspond with that of the caption file.

1. Ensure that the extension of the caption file is supported ( **.smi** or **.srt** ) by the source.
2. If they are not supported, convert the file on your computer by using a conversion program.

***During network playback, the display freezes or jumps.***

Network High Definition playback may be problematic due to network speed irregularities. To resolve the issue, perform the following steps:

-  Copy the content to a USB drive using the **Copy File** menu.
-  Copy the content from the USB drive to the recorder's internal HDD.
-  Playback the content from the internal HDD.

***During Wireless network playback of .rmvb files, the message  
“Media is Removed Stop Playback, Confirm OK” displays.***

This message displays when the Wireless connection is disrupted and connection is lost. To resolve the issue, perform the following steps:

1. Press **Select** on the remote to acknowledge the message.
2. Reconnect the Wireless link. See Wireless LAN Setup on page 47
3. Replay the media file.



The recorder does not support playback of **.rmvb** format files from the internal HDD.



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